

# 6EA5

## Sharp-Cutoff Tetrode

### 7-PIN MINIATURE TYPE

#### GENERAL DATA

##### Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) . . . . .	6.3 ± 10%	volts
Current at 6.3 volts. . . . .	0.2	amp

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield<sup>a</sup></i>	
Grid No.1 to plate. . . . .	0.06 max.	0.05 max.	μf
Grid No.1 to cathode & internal shield, grid No.2, and heater. . . . .	3.8	4.5	μf
Plate to cathode & internal shield, grid No.2, and heater. . . . .	2.3	3	μf

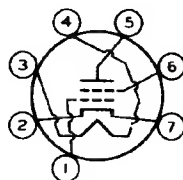
##### Characteristics, Class A<sub>1</sub> Amplifier:

Plate Voltage . . . . .	250	volts
Grid-No.2 Voltage . . . . .	140	volts
Grid-No.1 Voltage . . . . .	-1	volt
Plate Resistance (Approx.) . . . . .	0.15	megohm
Transconductance. . . . .	8000	μmhos
Plate Current . . . . .	10	ma
Grid-No.2 Current . . . . .	0.95	ma
Grid-No.1 Voltage (Approx.) for transconductance (μmhos) = 100 or less . . . . .	-6	volts

##### Mechanical:

Operating Position. . . . .	Any
Maximum Overall Length. . . . .	2-1/8"
Maximum Seated Length. . . . .	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip). . . . .	1-1/2" ± 3/32"
Diameter. . . . .	0.650" to 0.750"
Dimensional Outline . . . . .	See <i>General Section</i>
Bulb. . . . .	T5-1/2
Base. . . . .	Small-Button Miniature 7-Pin (JEDEC No. E7-1)
Basing Designation for BOTTOM VIEW. . . . .	7EW

Pin 1 - Grid No.1  
Pin 2 - Cathode,  
Internal  
Shield  
Pin 3 - Heater  
Pin 4 - Heater



Pin 5 - Plate  
Pin 6 - Grid No.2  
Pin 7 - Cathode,  
internal  
Shield



RADIO CORPORATION OF AMERICA  
Electron Tube Division  
Harrison, N. J.

DATA  
5-61

# 6EA5

## AMPLIFIER — Class A<sub>1</sub>

### Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE . . . . .	250	max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE . . . . .	150	max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:			
Positive-bias value . . . . .	0	max.	volts
CATHODE CURRENT . . . . .	20	max.	ma
GRID-No.2 INPUT . . . . .	0.5	max.	watt
PLATE DISSIPATION . . . . .	3.25	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode .	200	max.	volts
Heater positive with respect to cathode .	200 <sup>b</sup>	max.	volts

<sup>a</sup> With external shield JEDEC No.316 connected to cathode.

<sup>b</sup> The dc component must not exceed 100 volts.

